



# MODIS Geolocation Goals

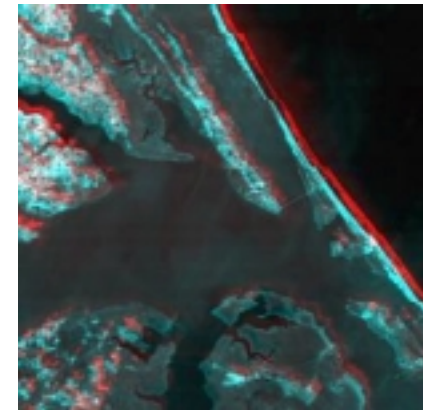
- Geolocation accuracy specification is 300 m (2 sigma) and goal is 100 m (2 sigma) at nadir
  - To be achieved using global distribution of Ground Control Points (Land: Landsat TM, Ocean: SeaWiFs islands)
- Geolocation goal driven by Land 250 m change product requirements



# MODIS Geolocation Current Status

- Geolocation program is performing well
  - No serious production failures or gross bugs
- Current Geolocation error is 1.7 km RMS
  - Bias found is Roll: -240 arcsec (-0.8 km at nadir), Pitch: 350 Arcsec (1.2 km at nadir)
- Ground Control Point Matching Status
  - Manually running matching program
  - Automation of program in MODAPS operations by 4/15/00
  - Land: 310 of 550 points collected from 110 TM scenes
  - Ocean: 4600 island points from SeaWifs library
- Removal of bias in DAAC operations expected by 4/15/00, reducing error to 0.5 km RMS
- Further analysis will be performed to characterize scan mirror wedge angles, along scan mirror motion and band-to-band registration, followed by longer term analysis of trends and cyclical variations, etc.

Before:



After:

